

Name: _____

If Jacob's room is 7 meters long and 3.8 meters wide, how many square feet of carpet will he need to cover the whole floor? Round your answer to the nearest tenth.

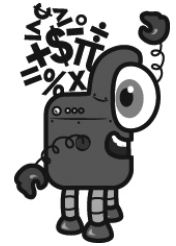
The students at Annandale Middle School made a banner with the words "Let It Go Day - June 23" on it. The banner was 5.2 times as long as it was wide. If the banner was 3 feet wide, how long was it?

Emma was bored. She asked her mother if she could make cookies. Her mother agreed, so Emma got busy. She made 2 dozen oatmeal cookies and 21 chocolate chip cookies. How many cookies did she make in all?

Name: _____

Mental Math

— #1 —



- Start with the sum of 6 and 10.

16

- Divide that number in half.

1 9 5 7 8 6 8 3 7 1 (Circle your answer to double check you are correct.)

- Triple that number.

6 2 4 8 3 9 1 0 9 7

- Divide that number in half.

1 2 2 8 7 5 6 6 8 3

- Add the digits in your number. The sum of that is your new number.

6 6 1 4 8 3 3 4 7 3

- Multiply by 9.

8 1 2 7 1 8 6 6 4 9

- Triple that number.

1 1 4 8 1 7 3 0 2 9

- Subtract the number of inches in 2 feet.

3 4 1 4 7 3 5 5 7 3

- Increase that number by 13.

7 7 5 9 3 4 7 0 6 4

- Add half of 48.

5 4 4 0 3 9 4 7 8 7

- Add the number of inches in 1 foot.

1 0 6 9 1 0 6 8 5 5

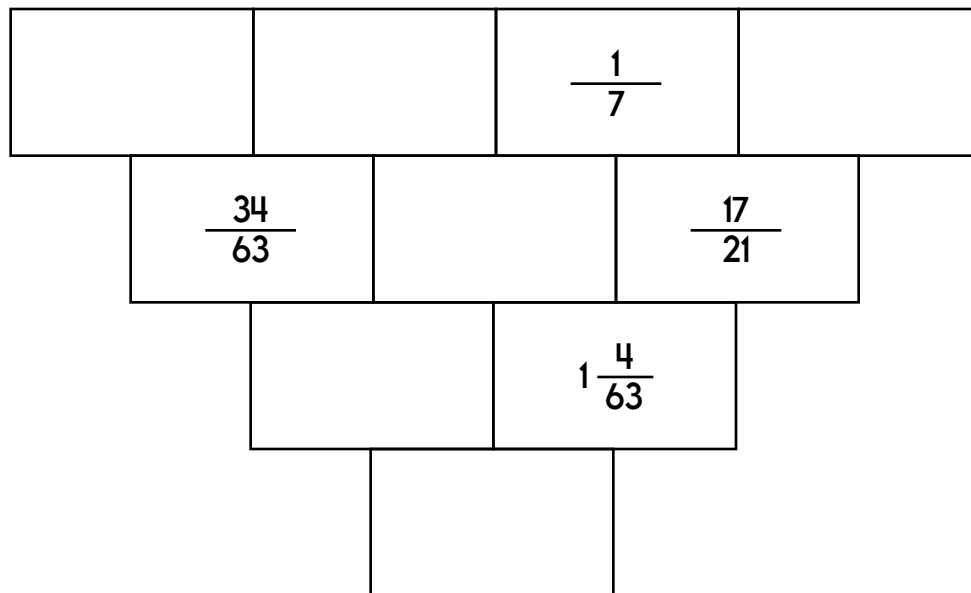
Name: _____

It costs \$0.009 per hour to run a 100-watt light bulb. It costs \$0.017 per hour to run a small radio. How much more does it cost to run a radio for 17 hours than it costs to run a 100-watt light bulb for the same amount of time?

Mary wants to make carrot cake. Her recipe calls for $\frac{3}{4}$ cup of grated carrots. She has grated $\frac{1}{2}$ cup. How much more carrot does she have to grate?

Hannah is mapping out an imaginary trip from point $(-1, 6)$ to $(5, 6)$. She spent 5 days there. Then she went to point $(5, 0)$. If 1 unit = 95 miles, how many total miles did she travel in all?

The area of a square is 57.76 square inches. What is its perimeter?

[illegible]

55.68

Name: _____

<p>Rose's great grandmother walked all the way across Germany before she came to the United States. She and her family carried all they owned in little sacks on their backs. They walked an average of 3.32 miles per day. How far did they walk in a year?</p>	<p>Amy wanted to clean out her fish tank. Her fish tank was 2 feet long, 1.7 feet deep and 1.2 feet wide. Ninety percent of the volume of the tank was filled with water. What was the volume of the part of the tank that was not filled with water? Round your answer to the nearest hundredth.</p>	<p>The Peppermint Patty Ice Cream Parlor sold 114 peppermint parfaits the first month it was open. It sold 139 peppermint parfaits the second month and 164 the third month. If this pattern continues, how many peppermint parfaits will be sold the fifth month?</p>
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<p>You are given five cards. One card has the number 1 on it, another card has a 2, another card has a 3, another card has a 4, and the last card has the number 5 on it. Use two cards to make a fraction. What is the largest fraction that you can make?</p>	$50 \div 5 = \underline{\hspace{2cm}}$	$\begin{array}{r} 747 \\ - 236 \\ \hline \end{array}$
	$\begin{array}{r} 73 \\ - 31 \\ \hline \end{array}$	$\begin{array}{r} 427 \\ + 200 \\ \hline \end{array}$

$11 \times 10 =$	$9,636 - 4,179 = \underline{\hspace{2cm}}$	$\begin{array}{r} 31 \\ + 46 \\ \hline \end{array}$
	$2 \times 7 = \underline{\hspace{2cm}}$	

Name: _____

What number is halfway between 23 and 30?	$61,977 + 48,397 =$ _____

Can 752 be evenly divided by 8? Circle: 752 is NOT evenly divisible by 8 752 is evenly divisible by 8	13 cm = _____ mm
	1 kg = 1,000 g
	6 kg = _____ g

Circle the smallest number: 4,501,896 72,385 37,094,621,401 785,329,691,350	$7 \times 6 =$ _____	$(8 + 4) + 2 =$
		$5 \times 11 =$ _____

How many yards are in 21 feet? _____ yards	Mary got a new soccer shirt. Can you guess the number on the back of her shirt? It has two digits. The digits add up to 13. The larger digit is 5 more than the smaller digit. The number is odd.
$18 \div 3 =$	

Name: _____

$7 \times 2 =$ _____	The product of two consecutive whole numbers is 42. What are the two consecutive whole numbers?	$3 \times 12 =$

$8,472 - 7,758 =$ _____	Write an equation to represent this: The difference between fourteen and three is eleven. _____

Ava and Holly are playing a number game. Ava says 8. Holly replies that the answer is 15. Ava says 5. Holly replies that the answer is 12. Ava says 4. Holly replies that the answer is 11. Ava says 17. Holly replies that the answer is 24. Ava says 7. Holly is thinking. What number should Holly reply with?	$11 \times 2 =$ _____
	$5 \times 3 =$ _____

Write 7,313,274 in words. _____	$9 \times 3 =$ _____
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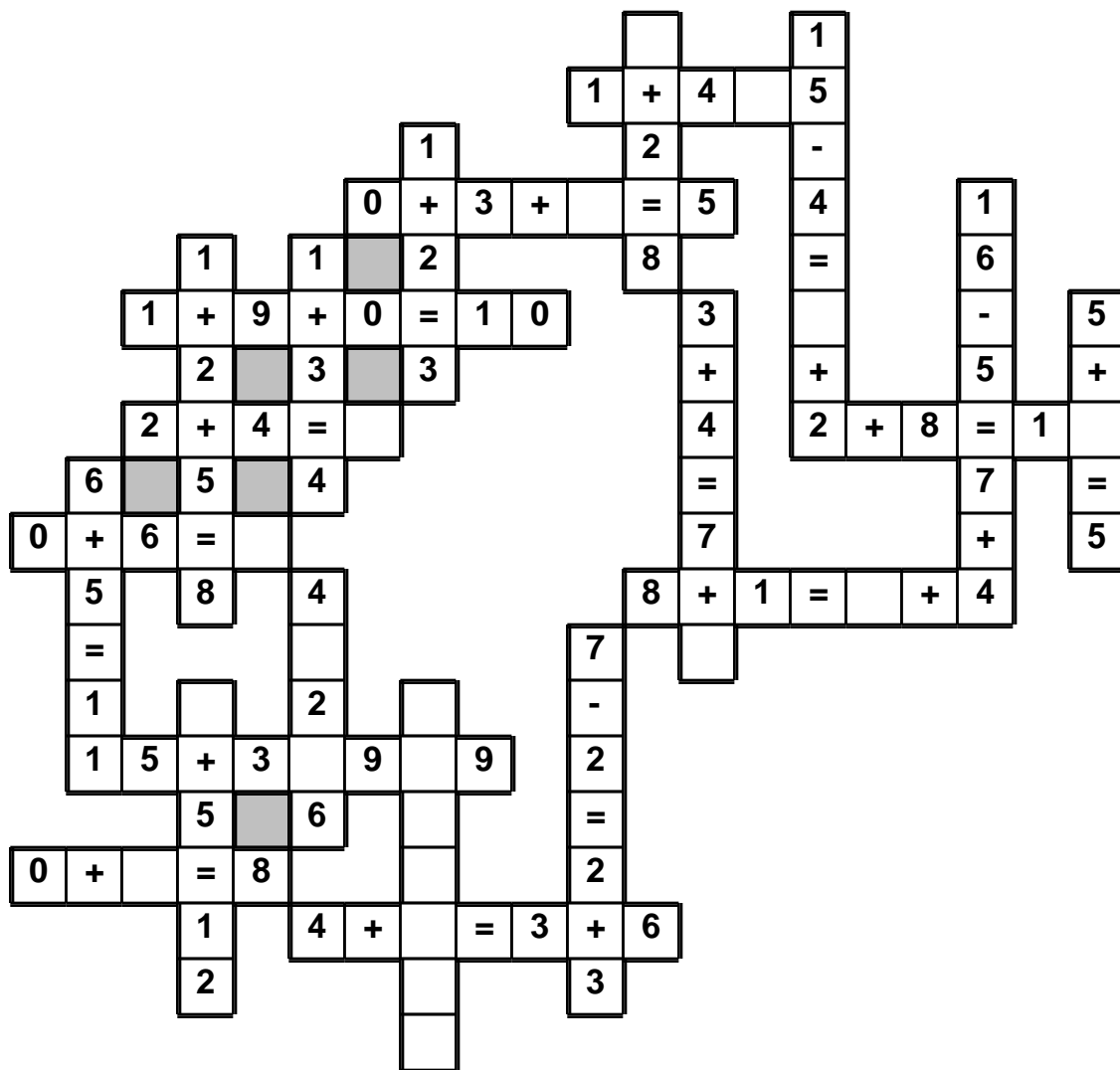
$65,412 + 92,764 =$ _____	$3 \times 10 =$ _____
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For 70,587,718,582, write the digit that is in the ten thousands place. _____	$72 \div 8 =$
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Name: _____

6 • = • 2 • 9 • 6 • 0 • 6 • 5 • + • 0 • 7 • 2 • = • + • 0 • 8 • +
5 • = • 7

Use the pieces above to help you fill in the runaway math puzzle.



$71,355 - 28,434 =$ _____

$8 \times 5 =$ _____

$8 \div 2 =$ _____

What time is 15 hours after
4:00 a.m.?

$120 \div 12 =$ _____

word root **il** can mean **in or not**

illuminate, illumination, illuminative

Name: _____

Circle the correct answer.

The sum of the angles measures of a triangle are ...

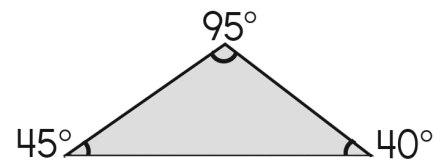
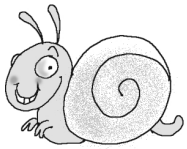
90° 180° 200°

A triangle cannot have two right angles because ...

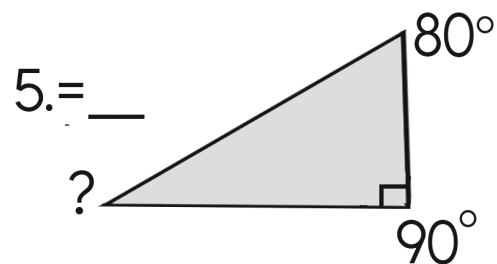
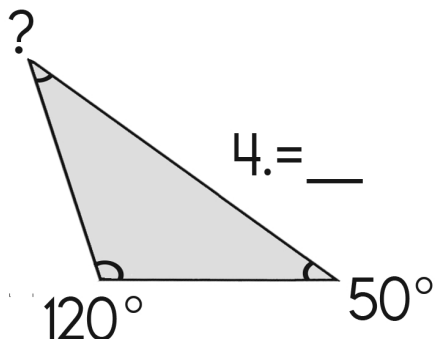
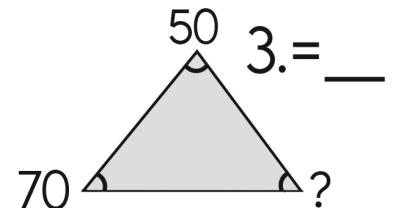
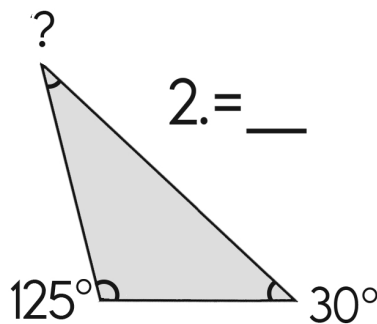
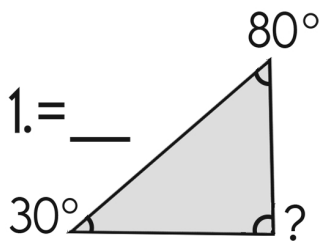
It would be more than 180°. It wouldn't be legal with the math council. The early pilgrims made it that way.

The sum of measure for this triangle is ...

90° 180° 200°



Write in the missing angle measurements.



Name: _____

Alex brought a bucket of pennies, nickels, dimes, and quarters to class. He wrote instructions on task cards. On the first card he wrote, "Make 16 cents from 3 coins." On the second card he wrote, "Make 44 cents from 3 coins." He gave one card to David, and he gave the other card to Hunter.

David and Hunter figured out the coins to use and showed them. Apparently Hunter counted wrong because his card's task was not possible. Which card did he get and why?

Make up a situation where you might find these numbers in real life.

a. 12

b. 24,124

c. 3,290

d. 65

Rosa is going to meet up with her friend Pam at the mall. It's Pam's birthday, so Rosa is planning on treating her to lunch and the movies.

a. Where do you think Rosa should take Pam to lunch? Estimate how much lunch will cost.

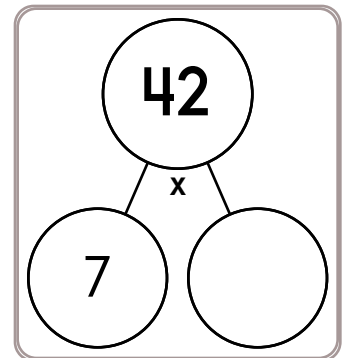
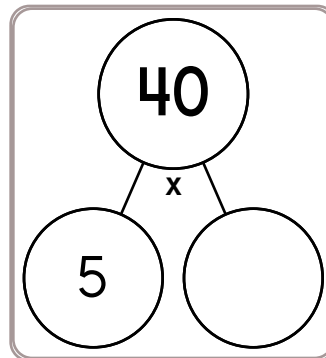
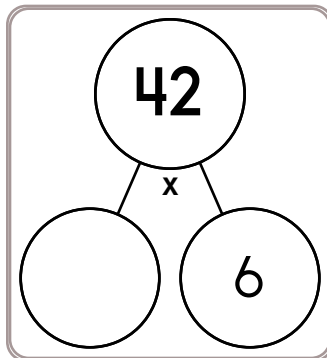
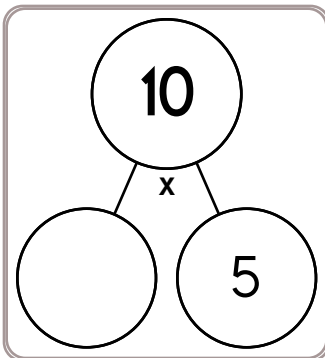
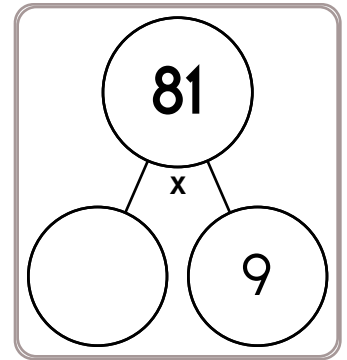
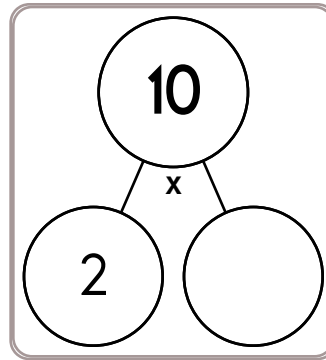
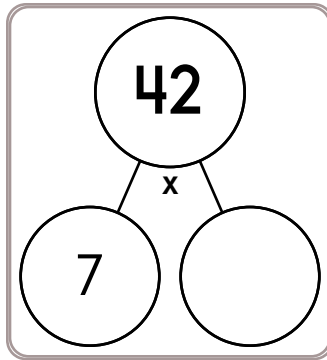
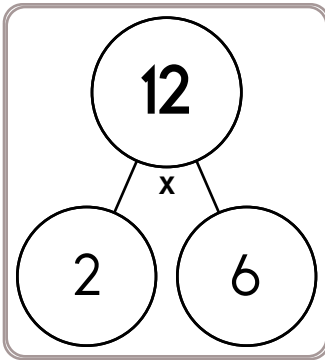
b. How much do you think 2 movie tickets will cost? Remember you are just estimating!

c. How much money would you tell Rosa to take out of the ATM so she has enough money for the mall?

Maria and Emily want to play Move Fast, their favorite board game. All you do is spin twice, take the sum of your two spins, and move. But if you get the same sum two times in a row, you go to the spot on the board labeled Thunderstorm. The spinner has the numbers 1, 5, and 8 on it. How many different sums are possible?

Maria got a sum of 6 on her first move. What is the chance that she will go to Thunderstorm on her second move?

Name: _____



$$\underline{\quad} \div 11 = 6$$

$$36 \div \underline{\quad} = 3$$

$$80 \div \underline{\quad} = 8$$

$$\underline{\quad} \div 10 = 11$$

$$10 \div \underline{\quad} = 5$$

$$90 \div \underline{\quad} = 9$$

$$\underline{\quad} \div 4 = 12$$

$$\underline{\quad} \div 8 = 4$$

$$42 \div \underline{\quad} = 7$$

$$\underline{\quad} \div 8 = 11$$

$$22 \div \underline{\quad} = 11$$

$$\underline{\quad} \div 4 = 5$$



$$45 \div 5 =$$

$$42 \div 6 =$$

$$10 \div 2 =$$

$$24 \div 3 =$$

$$63 \div 9 =$$

$$81 \div 9 =$$

$$48 \div 8 =$$

$$18 \div 3 =$$

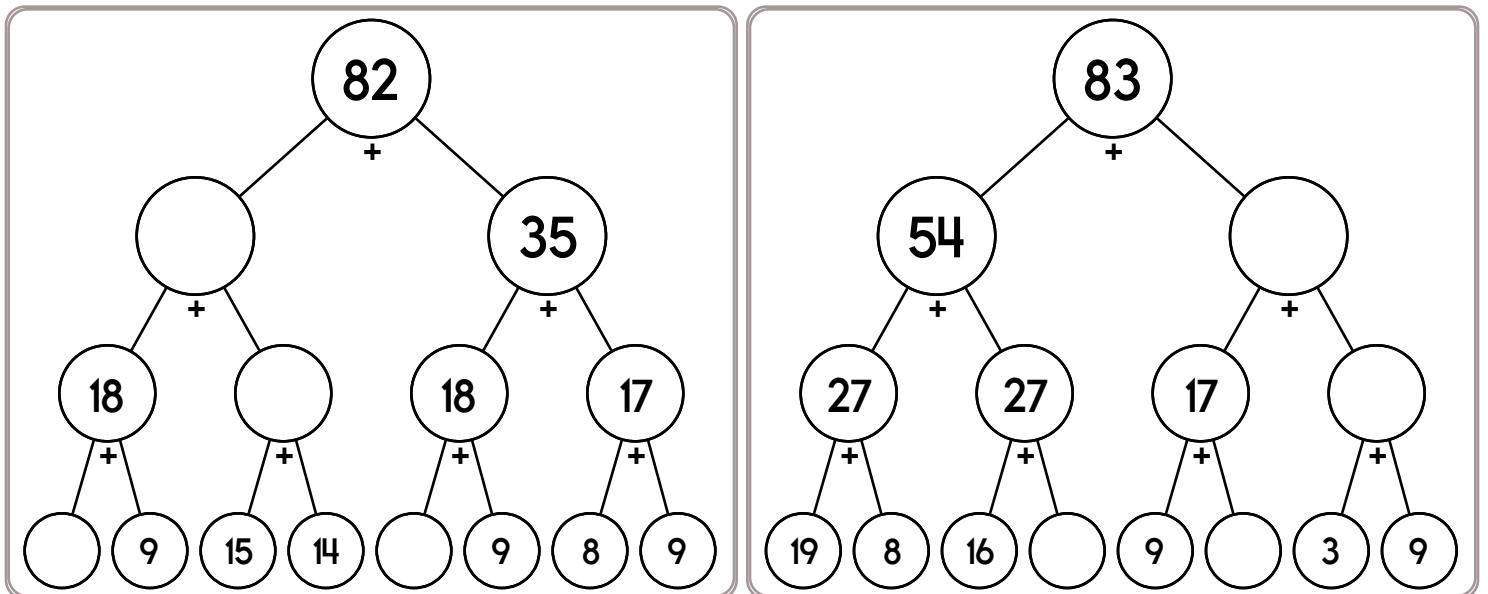
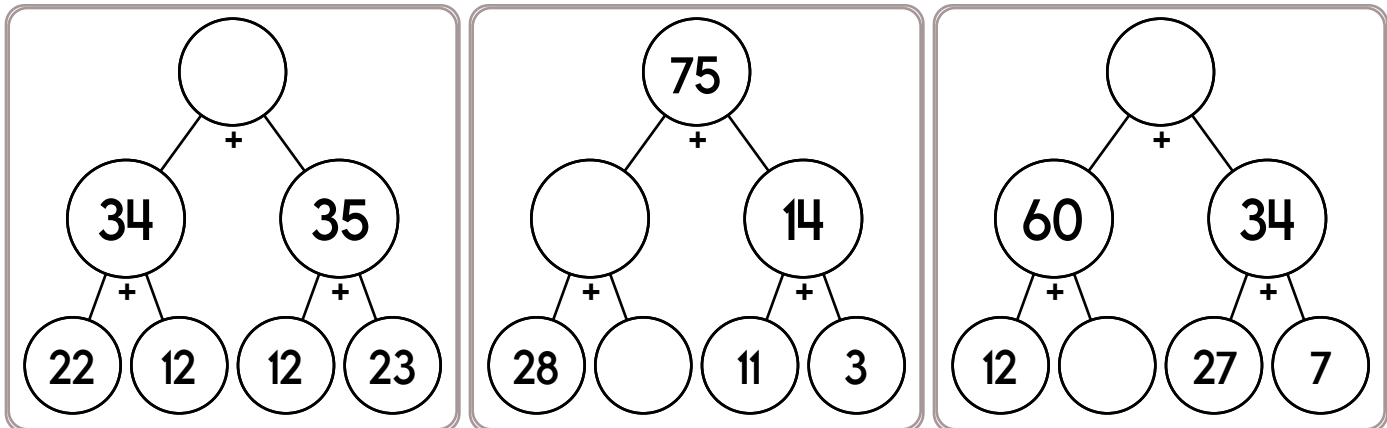
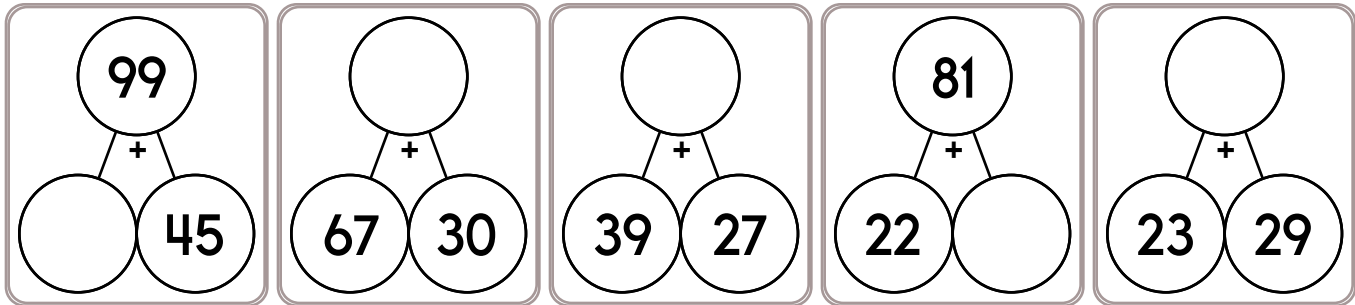
$$54 \div 9 =$$

$$32 \div 4 =$$

$$30 \div 6 =$$

$$12 \div 6 =$$

Name: _____










$(12 + 9 + 8) =$

F, M, _____, O, H, Q,
I, S, J, U

$22 - 12 + t = 15$
What is the value of t?

Name: _____

Puzzle:

	6		54
6			96
			12
54	96	12	X

Work Area:

	6		54
6			96
			12
54	96	12	X

The product for each column and row is given. Blanks use numbers 2 to 9 only.



= _____



= _____



= _____

If $s = 6$ and $p = -49$ then what is $6s + 10p - 3p = ?$

Simplify.

$$\frac{190}{342} =$$

$$y = x + 18$$

$$y = 29$$

What is the value of x ?

$$17.4239 \times 10^4 =$$

If $5x = 80$, then $x =$

If $j = -6$ and $h = 38$ then what is $12j + 9h - 4h = ?$

$$429 \div 10$$

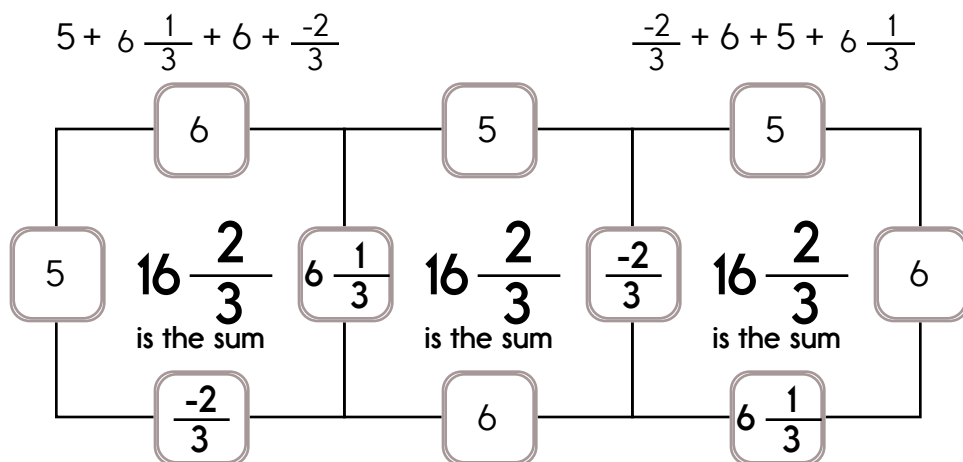
$$0.2 \times 0.6$$

$$(4 \times 5) + 6 \times 10 + 8$$

Name: _____

This puzzle has a large number in the middle, which is the sum of the four numbers that surround it.

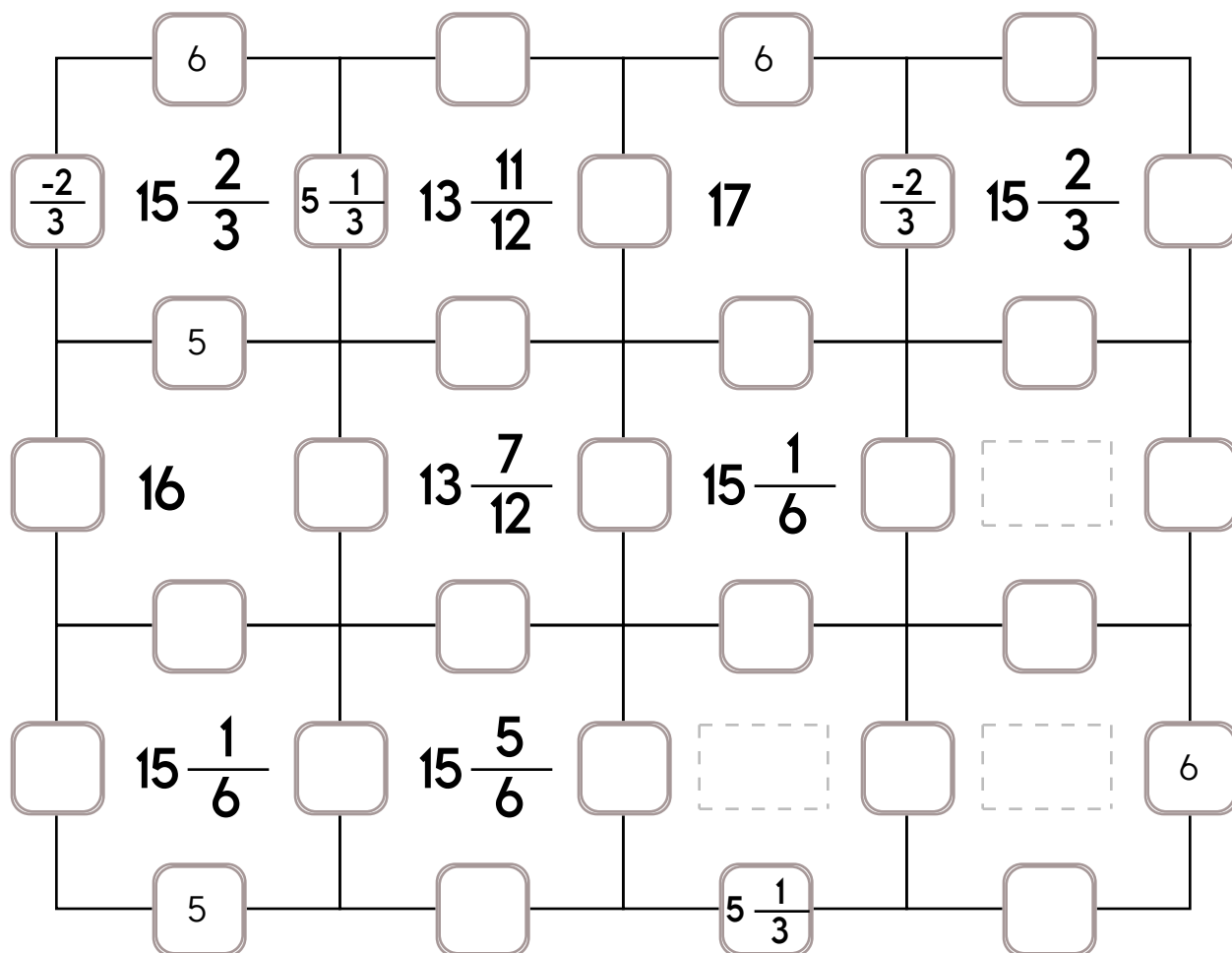
Sample:



Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square.

Exactly one of the four numbers has to be one of these numbers: $\frac{-2}{3}$, $-1\frac{1}{2}$, or $-2\frac{3}{4}$.

The other three numbers have to all be DIFFERENT and must be from these: $6\frac{1}{3}$, $5\frac{1}{3}$, 6, or 5.



Exactly one of the four numbers has to be one of these numbers: $-3\frac{1}{2}$, $-\frac{1}{9}$, or $-2\frac{5}{8}$.

A 6x6 grid of boxes connected by lines. The boxes contain the following values (row by row, left to right):

- Row 1: $4\frac{1}{2}$, 5 , 14 , 8 , $14\frac{7}{8}$, $-2\frac{5}{8}$, 8
- Row 2: $-3\frac{1}{2}$, 18 , 14 , 18 , $14\frac{1}{2}$, $4\frac{1}{2}$
- Row 3: $18\frac{3}{8}$, $17\frac{7}{18}$, $17\frac{1}{2}$
- Row 4: $15\frac{3}{8}$, $21\frac{7}{18}$, $17\frac{1}{2}$, $14\frac{1}{2}$
- Row 5: $15\frac{3}{8}$, $14\frac{7}{8}$

Empty boxes are located at (1,3), (1,5), (2,1), (2,3), (2,5), (3,1), (3,3), (3,5), (4,1), (4,3), (4,5), (5,1), (5,3), (5,5), (6,1), (6,3), (6,5), (6,6), and (6,7). Two dashed boxes are located at (3,4) and (5,4).

Name: _____

Fill in the missing numbers.

Only rule - The same number CAN NOT be next to each other, in ANY direction.

Dark lines surround a block. Numbers to use in a block:

A block with 1 space has to be the number 1.

A block with 2 spaces must have the numbers 1 and 2.

A block with 3 spaces must have the numbers 1, 2, and 3.

A block with 4 spaces must have the numbers 1, 2, 3, and 4.

1	2	1	4	1	4	5	1
4	3	5	3	5	3	2	4
5	2	1	2	1			3
1	3	5	4				2

An entire block with 5 spaces is blank. Since the block is 5 spaces it uses the numbers 1-5.

1 3 5 4 2

1	5	2	1		1	2	3
2	4	3			5	4	1
1	5	1	2			2	3
2	3	4	3	5	4	1	4

An entire block with 5 spaces is blank. Since the block is 5 spaces it uses the numbers 1-5.

2 5 1 4 3

1		1		4	1	4
	4		2	3	2	
	5	1	5	1	4	3

Hint - These numbers are missing:

2 5 5 3 3 2

1		5	4	2		1
2	3	1	3	1	4	
1		4			3	1

Hint - These numbers are missing:

2 4 2 3 5 5

Name: _____

Each row, column, and box must have the numbers 1 through 6.

	6	1			
					4
3			6	5	
1				4	
		5			
	4		2		

Each row, column, and box must have the numbers 1 through 6.

3			1		
		1	6		5
	3		5		4
	2			6	

Name: _____

There are five objects (a blue object, a brown object, a yellow object, a pink object, and a gray object). Each object has a different mass (80.8 g, 7.7 g, 67.5 g, 60.4 g, and 47.2 g) and a different volume (45 cubic cm, 59.9 cubic cm, 2.8 cubic cm, 90 cubic cm, and 120.8 cubic cm).

Density = Mass / Volume

Figure out the mass, volume, and density of each object.

1. The volume of the gray object is not 45 cubic cm and it is also not 59.9 cubic cm.
2. The yellow object has a density of 1.049 grams per cubic cm and a mass of 47.2 g.
3. The density of water is 1.0 grams per cubic cm. If the yellow object was placed in water, it would sink.
4. One object has a volume of 2.8 cubic cm and a density of 2.75 grams per cubic cm.
5. The volume of the blue object is not 45 cubic cm and it is also not 2.8 cubic cm.
6. One object has a volume of 45 cubic cm and a density of 1.049 grams per cubic cm.
7. The brown object has a volume of 90 cubic cm and a density of 0.75 grams per cubic cm.
8. The density of water is 1.0 grams per cubic cm. If the blue object was placed in water, it would float.
9. The blue object has a density of 0.5 grams per cubic cm and a volume of 120.8 cubic cm.
10. The pink object has a greater mass than the blue object.
11. The density of aluminum is 2.7 grams per cubic cm. The gray object is more dense than aluminum.

blue object has a mass of _____, a volume of _____, and a density of _____.

brown object has a mass of _____, a volume of _____, and a density of _____.

yellow object has a mass of _____, a volume of _____, and a density of _____.

pink object has a mass of _____, a volume of _____, and a density of _____.

gray object has a mass of _____, a volume of _____, and a density of _____.

$16 \div 2 =$ _____

$91,639 + 67,812 =$ _____



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More history!

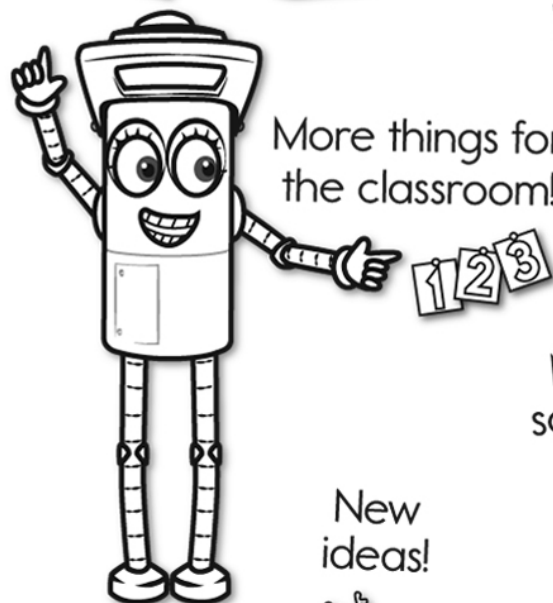


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